## (19) World Intellectual Property Organization

International Bureau



## : 1860 BINGON (1881) BINGO BENG BENG BINGO BINGON BINGON BINGO BINGON BINGON BINGON BINGON BINGON BINGON BINGON

(43) International Publication Date 10 November 2005 (10.11.2005)

PCT

## (10) International Publication Number WO 2005/105325 A1

(51) International Patent Classification<sup>7</sup>:

B05D 7/22

(21) International Application Number:

PCT/US2005/013442

(22) International Filing Date: 20 April 200

20 April 2005 (20.04.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/565,173

23 April 2004 (23.04.2004) US

(71) Applicant (for all designated States except US): THOMAS INSDUSTRIES, INC. [US/US]; 1419 Illinois Avenue, Sheboygan, WI 53082-0029 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): VONDENSTEIN, John, S. [US/US]; 107 North Ironwood Drive, West Monroe, LA 71291 (US). THURMON, William, T. [US/US]; 519 Lincoln Hill Drive, Monroe, LA 71203 (US).
- (74) Agent: FRANZINI, John, D.; Quarles & Brady LLP, 411 East Wisconsin Avenue, Milwaukee, WI 53202 (US).

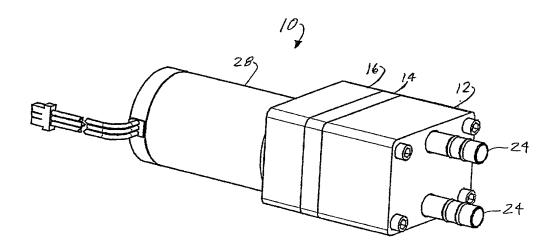
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COATED PUMP ASSEMBLY



(57) Abstract: A roots blower pump (10) has its internal gaps between relatively moving parts reduced by adding a liquid coating to the intake of the pump while operating the pump. The liquid coating cures to a solid surface on the moving parts, presenting opposing relatively moving surfaces that mate with one another to reduce leakage losses.